

Japanese Utility Model Application "Kokai" No. 2-62062

English translation of excerpts

- 5 A cylinder lock attaching apparatus comprising:
 a support cylinder portion having a cylindrical outer periphery
 which defines a concave groove-like detent portion extending along a
 cylinder axis and a slit extending in a direction intersecting the detent
 portion;
- 10 a stopper having a coil spring like coil portion and one end and the
 other end extending from opposed ends of the coil portion; and
 a cylinder lock fitted within the support cylinder portion and
 having a retaining projection formed in an outer periphery thereof to
 engage with the detent portion for preventing rotation;
- 15 wherein the stopper is retained via a support shaft which is
 inserted into the coil portion;
 one end is retained via a retaining portion and the other end is
 engaged in the slit, and the retaining projection of the cylinder lock is
 engaged with the detent portion for preventing rotation about the axis; and
- 20 for the engagement, the retaining projection rides over one end of
 the stopper located in the slit.

- 25 A cylinder lock attaching mechanism is known from the Japanese
 Utility Model Application "Kokai" No. 60-108654. Referring to it briefly,
 the opposed ends of the snap ring 5 described in the conventional
 construction shown in Fig. 4 and the drawings subsequent thereto are
 further extended to come into abutment against outer sides of the detent
- 30 portion 3 of the support cylinder portion 2 along the right/left direction.

Function

5 The stopper is supported, with placing its coil portion over the support shaft. In this, one end thereof is retained by the retaining portion and the other end thereof is dropped into the slit on the detent portion to be fixed therein. Namely, the other end of the stopper is retained in the direction intersecting the detent portion, during which the assembly of the stopper requires little time and the attaching operation may be completed with on touch operation.

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15 To the support shaft 15 and the retaining plates 16, 16, there is attached a coil spring like stopper 30. In this stopper 30, opposed ends 32, 33 of its coil portion 31 extend straight to form a hook-shaped opening.

20 The stopper 30 is supported, with its coil portion 31 being placed over the support shaft 15 disposed on the bracket 10. In this, one end 32 is inserted and retained between a pair of retaining plates 16, 16 and the other end 33 is dropped into the slit 22 on the detent portion 21 of the support cylinder portion 20. That is, the other end 33 of the stopper 30 will extend to intersect the detent portion 21. In this way, the stopper 30 will be retained, to the bracket 10, at its opposed ends 32, 33 retained to the support shaft 15 and the retaining plates 16, 16, during which the assembly of the stopper 30 requires little time and the attaching operation may be completed with on touch operation.

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5 Fig. 3 shows a modified embodiment. In this case, of the two ends 32, 33 of the stopper 30, one end 32 is retained by being placed in direct abutment against peripheral edges of the bracket 10 constituting a retaining portion, rather than using the pair of retaining plates 16, 16 employed in the foregoing embodiment.

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15 According to the cylinder lock attaching apparatus of the present invention, the stopper formed like a coil spring is supported with its coil portion being placed over the support shaft, one end being retained to the retaining portion, the other end being dropped into the slit on the detent portion provided in the support cylinder portion in the direction intersecting the detent portion, during which the assembly of the stopper requires little time and the attaching operation may be completed with on touch operation.

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